CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/KRIDL/BC/AIV/2016-17 16.01.2017

TEST REPORT ON IMPACT VALUE OF AGGREGATES

* Customer : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency : **Technical Manager (West),** KRIDL, Bangalore.
* Name of Work : Improvements to 1st Main, 6th A Cross and other cross roads at Manjunatha Nagar in Bagalagunte in Ward No.14, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Reference : BBMP/DZ/AEE/TDSD/PR/468/2016-17 Dated: 22.12.2016
* Sample ID : Hot mix plant, Bangalore.
* Type of Mix : Bituminous Concrete

Technical Reference : IS: 2386 (Part- 4)-1963 (RA-2011)

Date of Testing : 16.01.2017

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	387	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	300	301	
4	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.08	22.22	22.15

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

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Technical Reference : IS: 2386 (Part- 4)-1963 (RA-2011)

Date of Testing : 16.01.2017

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	389	390	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	88	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	301	301	
4	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.62	22.82	22.72

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Technical Reference : IS: 2386 (Part- 4)-1963 (RA-2011)

Date of Testing : 16.01.2017

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	80	81	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	302	303	
4	Aggregate Impact value = percent fines 100* (W2/W1) percent	20.94	21.09	**21.02**

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Civil-Tech Consultants & Engineers Bangalore

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

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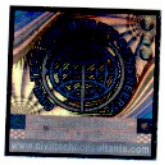
Technical Reference	:	IS: 2386 (Part- 4)-1963 (RA-2011)
Date of Testing	:	16.01.2017



Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	378	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	78	79	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	300	303	
4	Aggregate Impact value = percent fines 100* (W2/W1) percent	20.63	20.68	**20.66**

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Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

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Job No.: CTCE/BBMP/W.No.14/KRIDL/BC/Shape.T/2016-17 16.01.2017

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements to 1st Main, 6th A Cross and other cross roads at Manjunatha Nagar in Bagalagunte in Ward No.14, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/468/2016-17 Dated: 22.12.2016
* Sample ID	:	Hot mix plant, Bangalore
Technical Reference	:	IS : 2386(Part -1)-1963 (RA-2011)
* Type of Mix	:	Bituminous Concrete
Date of Testing	:	16.01.2017

Sl.No.	Description	Result
1	Flakiness Index	12.31%
2	Elongation Index	13.35%
3	Combined Flakiness & Elongation Index	25.66%

*Information is furnished by the Customer/Representative.

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Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous Concrete is 30%

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